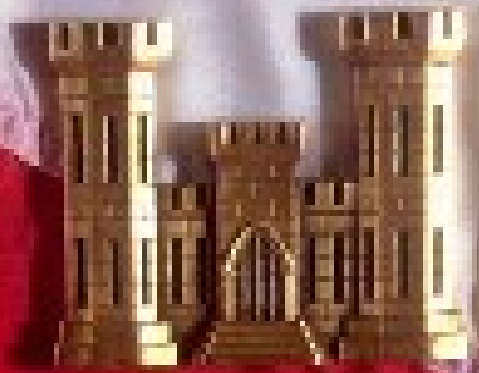
THE CONTINUING AUTHORITIES PROGRAM

Ecosystem Restoration & Flood Damage Reduction Services



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Ecosystem Restoration

- **Section 1135 – project modifications for improvements to the environment**

- **Section 204 – beneficial use of dredge materials**

- **Section 206 – aquatic ecosystem restoration**

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Reconnaissance Phase

1. Define problems & opportunities & potential solutions
2. Assess federal interest, costs, benefits, & environmental impacts
3. Estimate the cost of the feasibility phase
4. Assess the support of the local interests for feasibility & implementation of a project

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Feasibility Phase

- Optimizes the plan or plans to be built & can take up to 3 years to complete
- 50-50 cost share
- Non-federal share -- cash & in-kind products or services

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Project Implementation & Local Cooperation

Sponsor must:

1. **Provide all lands, easements, rights-of-way, relocations & disposal areas necessary for the construction & subsequent maintenance of the project**
2. **Hold & save the United States free from damages due to the construction and subsequent maintenance of the project, except damages due to the fault or negligence of the United States or its contractors**
3. **Maintain & operate the project after completion**
4. **Prevent future encroachment, which**

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Project Implementation & Local Cooperation

(Continued)

Sponsor must:

5. **Assume responsibility for all costs in excess of applicable federal cost limitations**
6. **Provide guidance and leadership in preventing unwise future development of the flood plain by use of appropriate flood plain management techniques to reduce flood losses**
7. **If the value of the sponsor's contribution above does not equal or exceed 35% of the project cost, provide cash contribution to make the sponsor's total contribution equal to 35%**

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Section 1135 (Project Modifications for Improvement of Environment)

1. Federal cost limitation of $5 million
2. "Work-in-kind" or contributions from the sponsor may be negotiated
3. If the value of the sponsor's contribution above does not equal or exceed 25% of the project cost, provide cash contribution to make the sponsor's total contribution equal to 25%

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Section 1135

- Initial study is 100% federally funded up to $10,000
- Remainder of the project is cost shared 75% federal & 25% non-federal
- Sponsor must contri
project
as
easements,
way, relocations,
& disposal areas
- Sponsor assumes co

>$5M federal limit

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Section 1135

Mill Creek/Milan Bottoms, Rock Island, Illinois

Before

After

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Section 204 (Beneficial Use of Dredge Materials)

Sponsor assumes costs >$5M federal limit

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Section 204

- The project is cost shared 75% federal & 25% non-federal for costs over the base plan
- Sponsor must contribute 25% of the total project modification cost above the base plan, including the provision of all lands, easements, rights-of-way, disposal areas
- No work-in-kind is allow

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Section 204

Blackhawk Bottoms, Pool 19, Iowa

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Section 206 (Aquatic Ecosystem Restoration)

1. Hold & save the United States free from damages due to the construction and subsequent maintenance of the project, except damages due to the fault or negligence of the United States or its contractors
2. Prevent future encroachment, which might interfere with proper functioning of the project
3. Assume responsibility for all costs in excess of the federal cost limitation of $5M
4. Provide guidance & leadership in preventing unwise future development of the flood plain by use of appropriate flood plain management techniques to reduce flood losses

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Section 206

- The preliminary restoration plan is 100% federally funded up to $10,000
- The remainder of the project is cost shared at 65% federal and 35% non-federal
- The entire non-federal share of the total project cost may be credited w
- Post-feasibility phase des
  including plans & specifi
  provision of materials,
  construction are items eli
  work-in-kind as p
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share

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Section 206

Duck Creek/Fairmount Park (Wetland Restoration), Davenport, Iowa

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Flood Damage Reduction

- **Section 205 – small projects**

- **Section 14 – emergency streambank & shoreline protection**
- **Section 208 – clearing & snagging of waterways**

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Reconnaissance Phase

1. Define problems & opportunities & potential solutions

2. Assess federal interest, costs, benefits, & environmental impacts of the identified alternatives

3. Estimate the cost of the feasibility phase

4. Assess the support of the local interests for feasibility & implementation of a project

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Feasibility Phase

- Optimizes the plan or plans to be built & can take from 18 months to 3 years to complete
- 50-50 cost share
- Non-federal share -- cash & in-kind products or services

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Project Implementation & Local Cooperation

Sponsor must:

1. **Provide all lands, easements, rights-of-way, relocations & disposal areas necessary for the construction & subsequent maintenance of the project**
2. **Hold & save the United States free from damages due to the construction and subsequent maintenance of the project, except damages due to the fault or negligence of the United States or its contractors**
3. **Maintain & operate the project after completion without cost to the United States**
4. **Prevent future encroachment, which might interfere with proper functioning of the project**

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Project Implementation & Local Cooperation

(Continued)

Sponsor must:

5. **Assume responsibility for all costs in excess of applicable federal cost limitations**
6. **Provide guidance and leadership in preventing unwise future development of the flood plain by use of appropriate flood plain management techniques to reduce flood losses**
7. **Provide a minimum cash contribution of 5% of the project cost**
8. **If the value of the sponsor's contribution above does not equal or exceed 35% of the project cost, provide cash contribution to make the sponsor's total contribution equal to 35%**

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Section 205 (Flood Damage Reduction)

1. Formal Assurance of Local Cooperation in the Form of a Project Cooperation Agreement
2. Maintenance & Operation of the Project
3. Federal cap = $7M

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Section 205

- **Initial study is 100% federally funded up to $100,000**
- **Remainder of the project is cost shared 65% federal & 35% non-federal**
- **Sponsor must contribute 35% (minimum 5% cash) of the total project implementation cost as cash or lands, easements, rights-of-way, relocations, & disposal areas**

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Section 205

Mad Creek, Muscatine, Iowa

Existing Mad Creek

Existing Panel Closure

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Section 14 (Emergency Streambank & Shoreline Protectio

1. Formal assurance of local cooperation in the form of a project cooperation agreement must be executed with the local sponsor
2. Sponsor must contribute 35% of the total project implementation cost as cash or lands, easements, rights-of-way, relocations, and disposal areas

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Section 14

- First $40,000 of PDA costs are at federal expense
- All costs over $40,000 require A 35% local cost share
- Each project is limited to a total federal cost of $1M
- Federal limitati
  includes a
  relat

&

supervision

& administration

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Section 14
Iowa River,
Iowa City,
Iowa

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Section 208
Clearing, Snagging & Channel Excavation

1. Formal assurance of local cooperation in the form of a project cooperation agreement must be executed with the local sponsor
2. Sponsor must contribute 35% of the total project implementation cost as cash or lands, easements, rights-of-way, relocations, and disposal areas

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Section 208

- First $40,000 of PDA costs are at federal expense
- All costs over $40,000 require a 35% local cost share
- Each project is limited to a total federal cost of $500,000
- Federal limitation includes all project-related costs for planning, design, construction, & supervision & administration

Section 208

Spoon River at Route 20 Bridge,

Knox County, Illinois

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Planning Assistance to States

Typical Studies

Water Supply & Demand
Water Quality
Environmental Conservation
Environmental Restoration
Wetland Evaluation
Dam Safety/Failure
Flood Damage Reduction
Flood Plain Management
Land Use Planning
Master Brownfields Environmental Assessments

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Flood Plain Management Services

Most Common Types of Studies

- Flood Plain Delineation/Flood Hazard Evaluation
- Dam Break Analysis
- Hurricane Evacuation
- Flood Warning/Preparedness
- Regulatory Floodway
- Comprehensive Flood Plain Management
- Urbanization Impact
- Stormwater Management

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Emergency Readiness & Response

Examples of Preparedness Assistance

- Participation in emergency seminars & exercises when requested by state or local officials
- Inspection of flood control works for Public Law 84-99 eligibility, & advisement to local officials of needed maintenance
- Technical assistance for development of plans at the state & local levels

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Emergency Readiness & Response

Examples of Response Assistance

- Assist in search & rescue operations
- Furnish technical advice & assistance
- Provide emergency repairs to levees & other flood control projects
- Furnish materials su as sandbags, sheeting,

the actively participating in a flood fight

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Emergency Readiness & Response

Examples of Recovery Assistance

- Furnish technical advice & assistance
- Provide restoration repairs to eligible flood control projects
- clearance of drainage channels, bridge openings, or structures blocked by debris deposited during the event
- Clearance of blockages of critical water supply intakes & sewer outfalls
- Debris removal necessary to reopen vital transportation routes
- Temporary restoration of critical public services or facilities
- Identify hazard mitigation opportunities

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